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Contact Us

David L. Carroll, Ph.D.



Associate Professor
Department of Physics

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<http://www.wfu.edu/nanotech/>

EDUCATION:

- ▾ B.S., Physics, North Carolina State University (Raeleigh), 1985
- ▾ Ph.D., Physics, Wesleyan University, 1993

RESEARCH INTERESTS:

- ▾ Growth and assembly of novel nanostructures
- ▾ Optics of nanostructures, Nano-photonics
- ▾ Quantum-functional properties of nanostructures
- ▾ Organic nanocomposite technologies
- ▾ Biomedical-nanotechnology

EXPERIMENTAL EXPERTISE:

- ▾ Scanning Probe Microscopies and Spectroscopies (STM, AFM, NSOM)
- ▾ UHV surface and nanostructure analysis techniques (XPS, Auger)
- ▾ Nanomaterials growth (carbon, metals)

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> Faculty

> Primary Faculty

- > Atala, Anthony
- > Behkam, Bahareh
- > Berry, Joel
- > Bourland, Daniel
- > Carroll, David L.
- > Christ, George
- > Davalos, Rafael
- > Devita, Raffaella
- > Duma, Stefan
- > Freeman, Joseph
- > Gabler, Clay
- > Ge, Yaorong
- > Goldstein, Aaron
- > Grant, J. Wallace
- > Hamilton, Craig
- > Hardy, Warren
- > Harrison, Benjamin
- > Holzbaur, Katherine
- > Kraft, Robert
- > Lee, YongWoo
- > Lockhart, Thurmon
- > Madigan, Michael
- > Munley, Michael
- > Nussbaum, Maury
- > Rajagopalan, Padma
- > Rylander, Christopher
- > Rylander, Nichole
- > Santago, Pete
- > Saul, Justin
- > Socha, Jake
- > Soker, Shay
- > Sparks, Jessica
- > Staples, Anne
- > Stitzel, Joel
- > Van Dyke, Mark
- > Vlachos, Pavlos
- > Wang, Ge
- > Wyatt, Chris
- > Yoo, James

RECENT PUBLICATIONS :

- ▽ D.L. Carroll, Polymer solar cells achieve 5.2% efficiency, LASER FOCUS WORLD, 42 (2); 11-11 FEB 2006.
- ▽ Carroll, DL; Czerw, R; Webster, S, Polymer-nanotube composites for transparent, conducting thin films, SYNTHETIC METALS, 155 (3): 694-697 DEC 15 2005
- ▽ J. Liu and D.L. Carroll, Temperature and Flow Rate of NH₃ Effects on Nitrogen Content and Doping Environments of Carbon Nanotubes Grown by Injection CVD Method, Temperature and Flow Rate of NH₃ Effects on Nitrogen Content and Doping Environments of Carbon Nanotubes Grown by Injection CVD Method J. Phys. Chem. B.; (Article); 2005; 109(33); 15769-15774

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